

FIG. 1A (PRIOR ART)

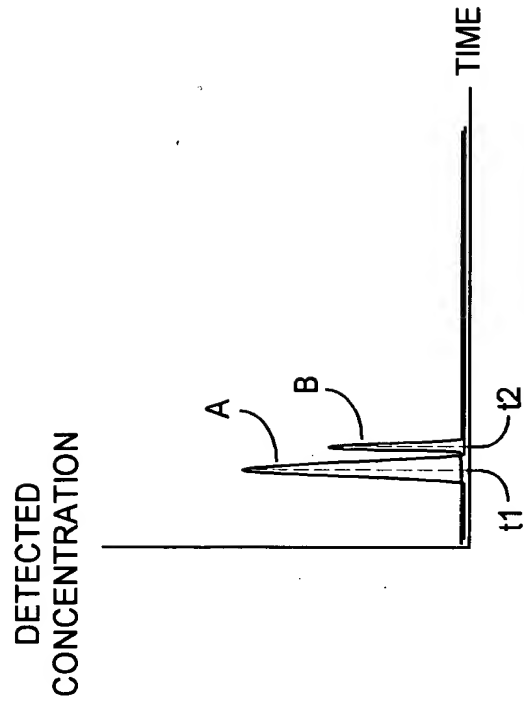


FIG. 1B (PRIOR ART)

FIG. 2A is a schematic diagram of a liquid chromatography system 100. The system includes a column 50, a UV FC detector 130, a multi-port valve 140, a mass spectrometer (MS) 200, a sample processor (SP) 240, and a control unit 170. The column 50 is connected to the UV FC detector 130 via a line 60. The UV FC detector 130 is connected to the multi-port valve 140 via a line 110. The multi-port valve 140 has six ports labeled V1 through V6. Port V1 is connected to the UV FC detector 130. Port V2 is connected to the MS 200 via a line 180. Port V3 is connected to the SP 240 via a line 220. Port V4 is connected to a waste line 250. Port V5 is connected to a waste line 90. Port V6 is connected to a waste line 80. The multi-port valve 140 is controlled by the control unit 170. The control unit 170 is also connected to the MS 200 and the SP 240. The control unit 170 is connected to a data output line 40, which is labeled "TO 40 (FIG. 1A)".

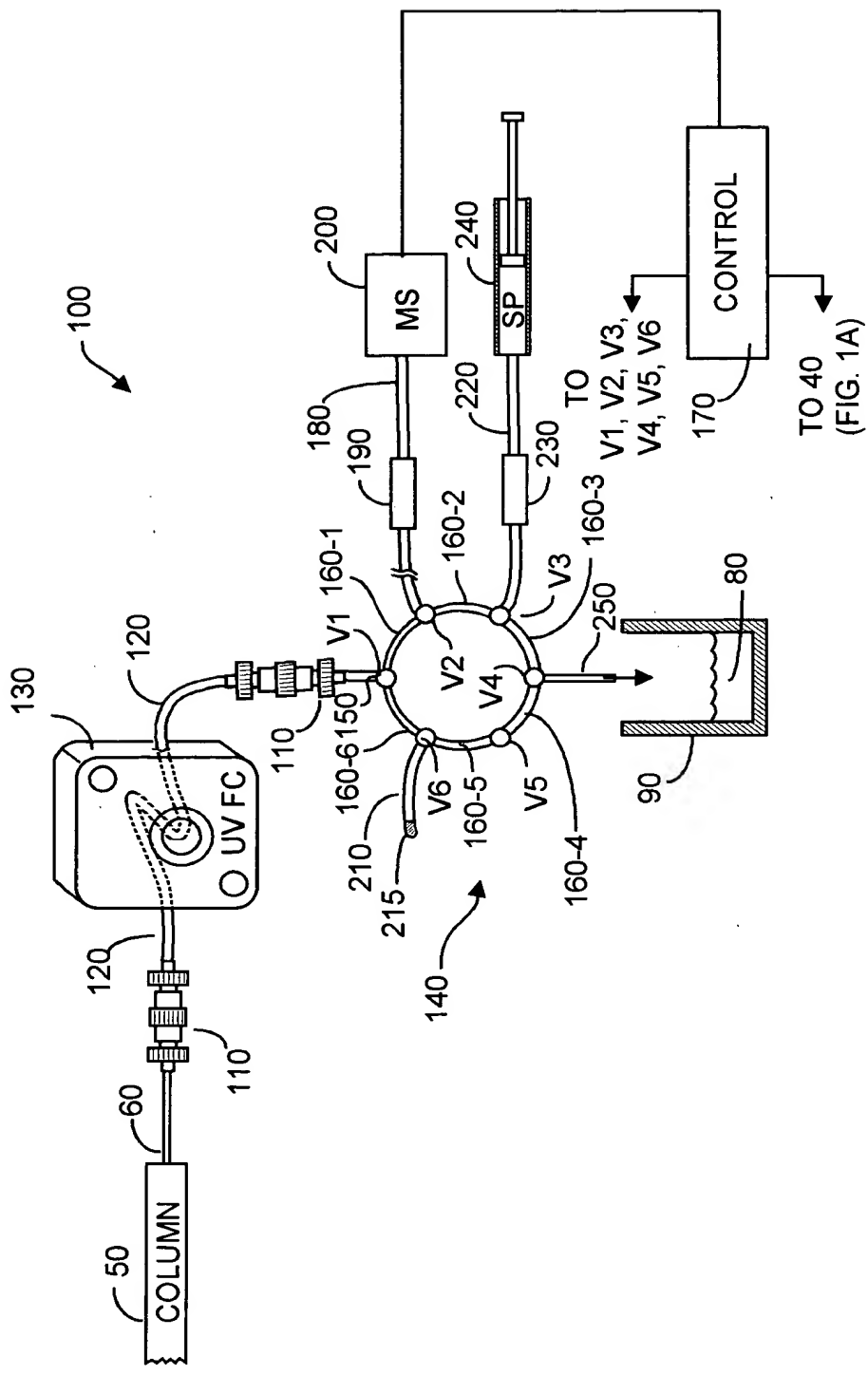


FIG. 2A

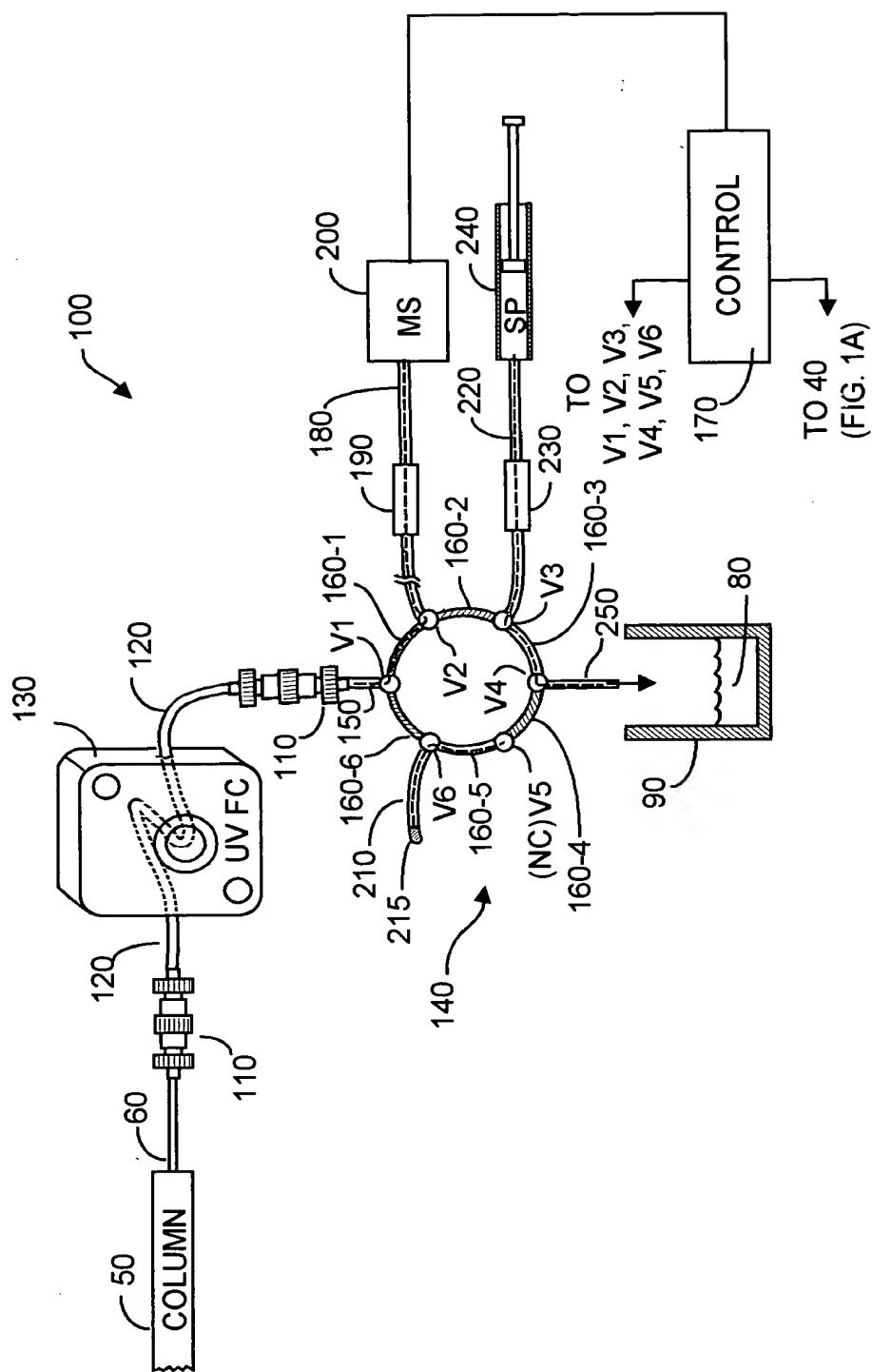


FIG. 2B

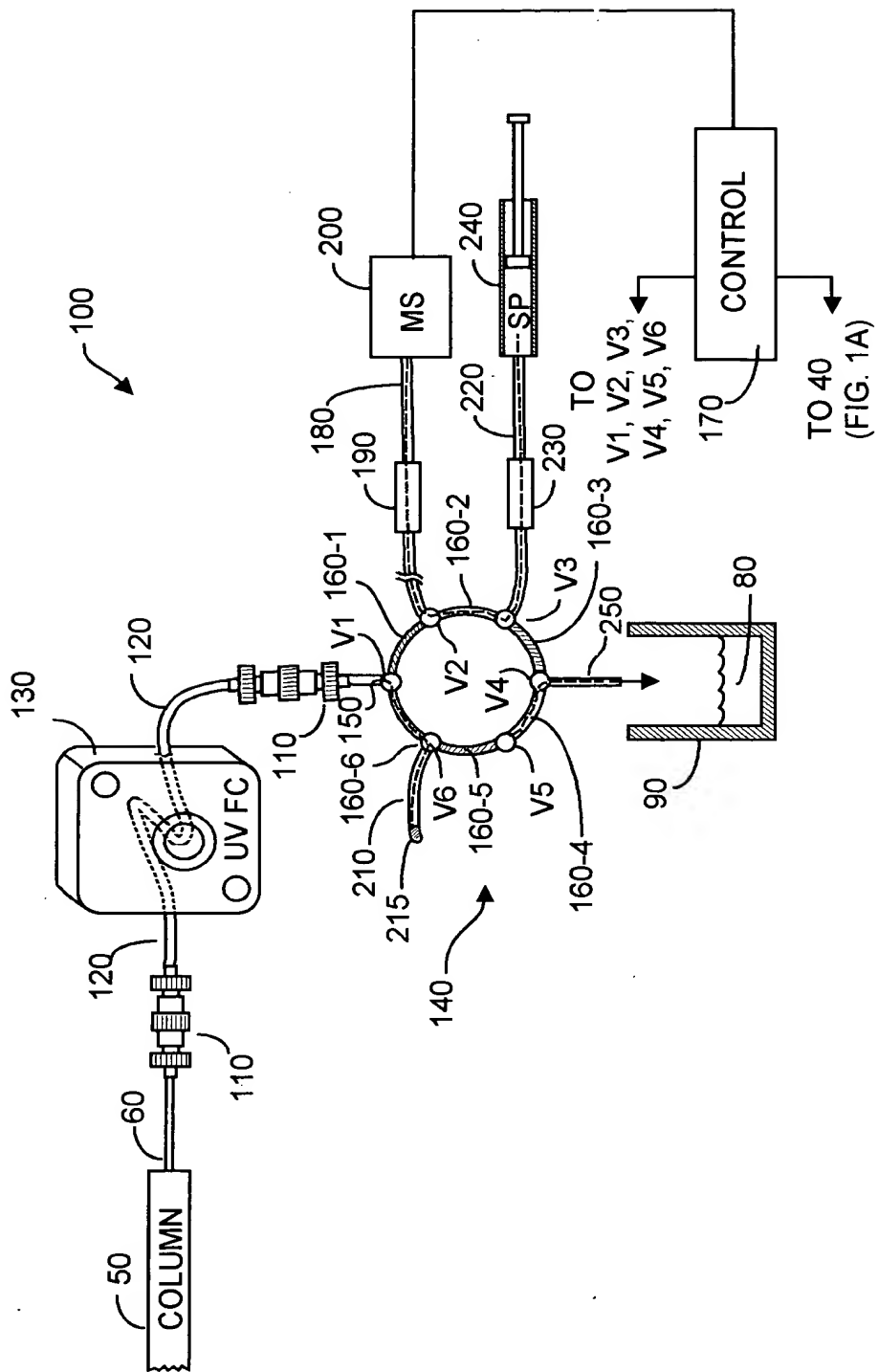


FIG. 2C

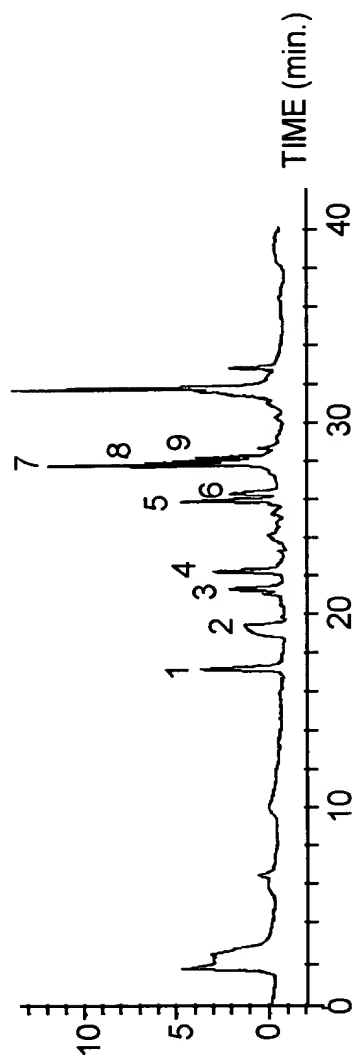


FIG. 3A

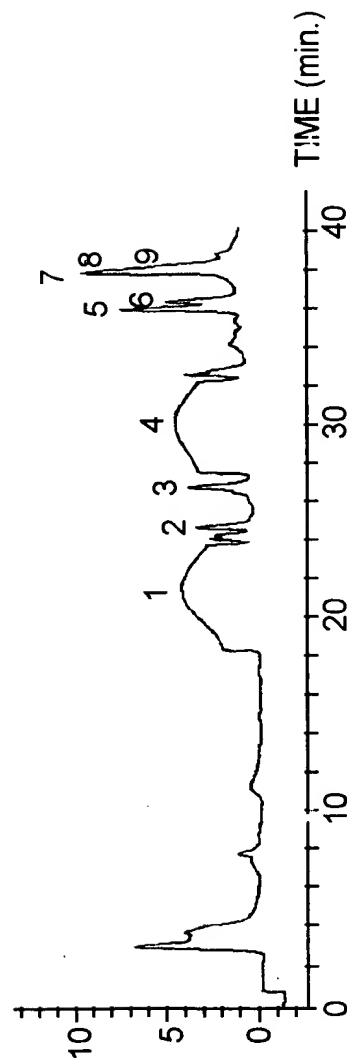


FIG. 3B

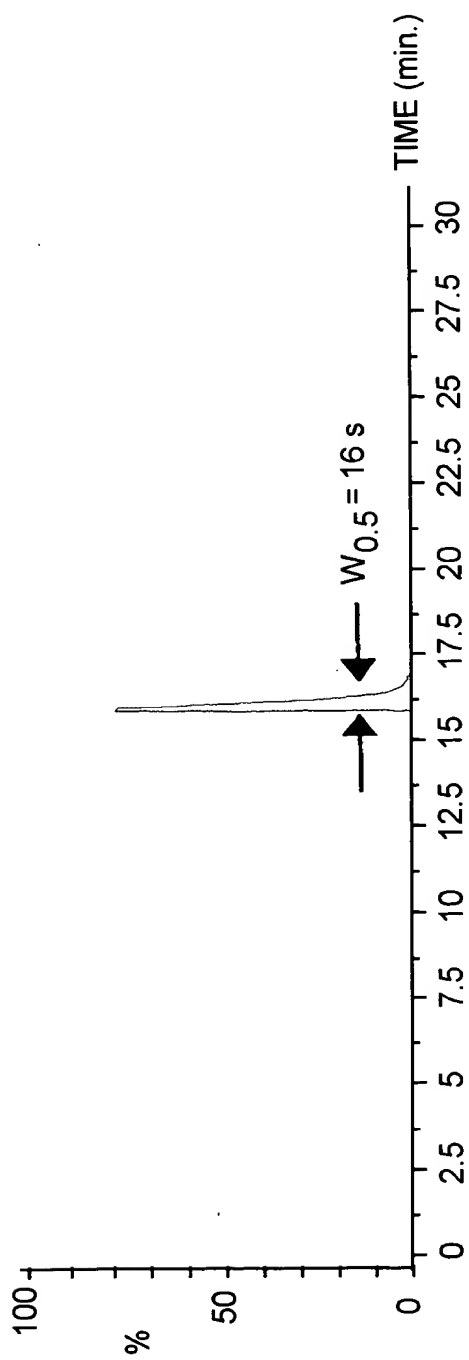


FIG. 4A

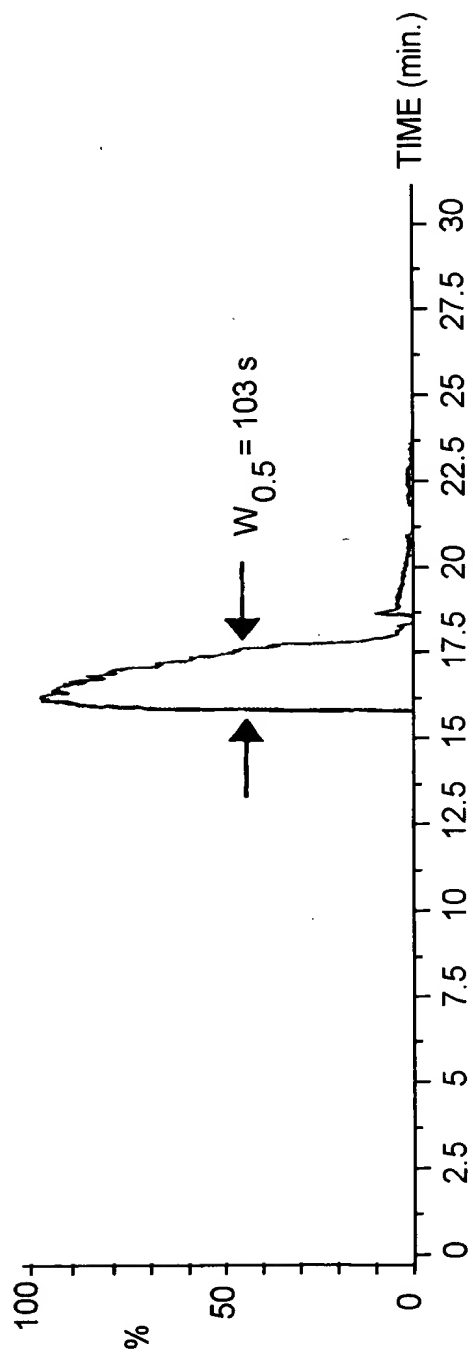


FIG. 4B

100% 558.15 558.85 836.71 1000

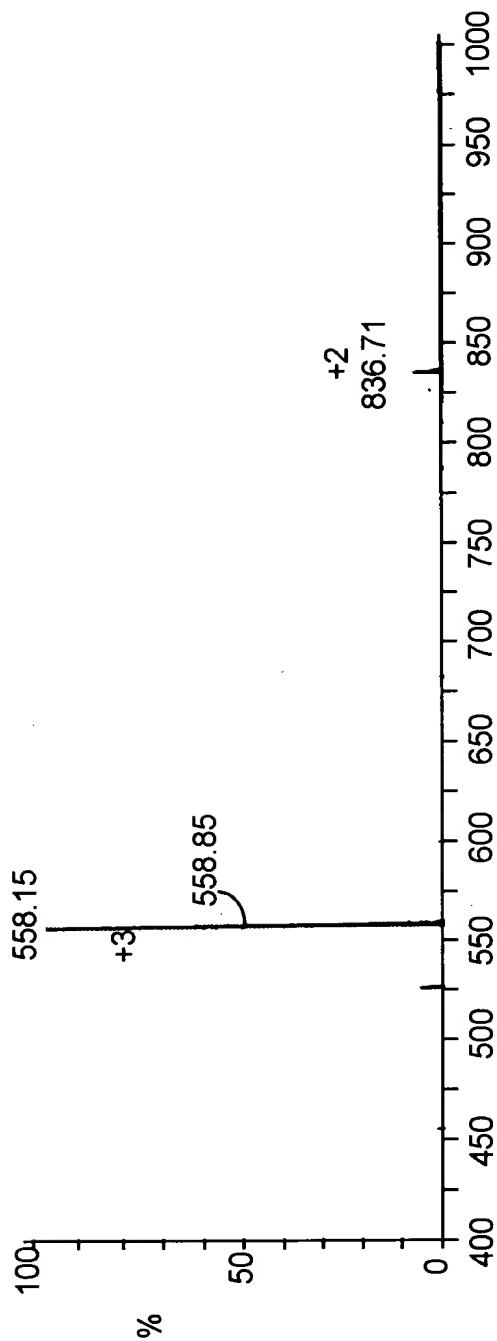


FIG. 5A

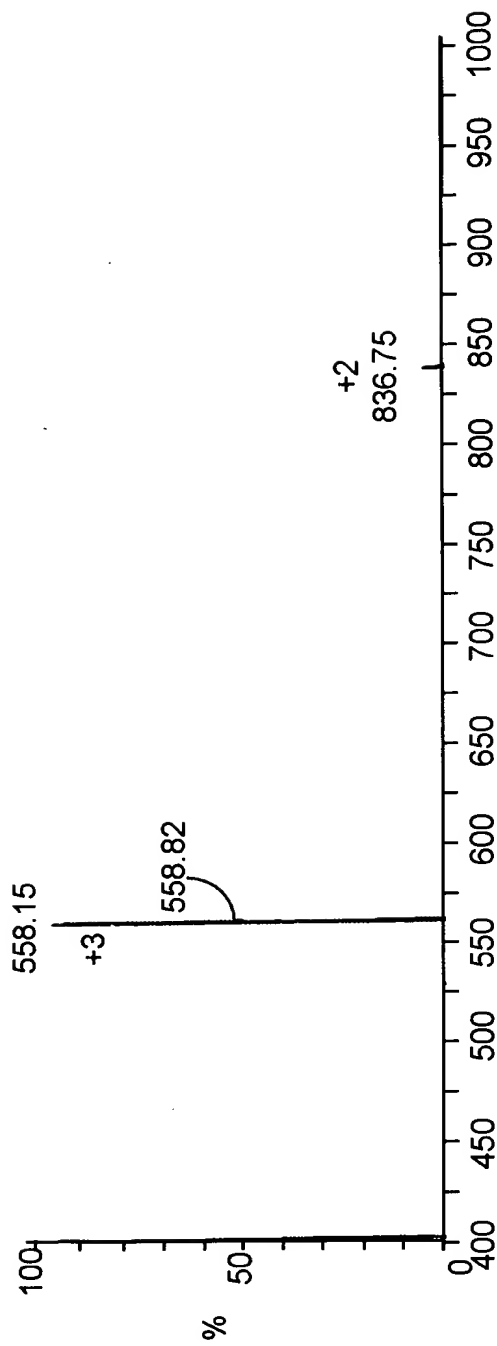


FIG. 5B